

| 1ST AND 2ND ORDERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3RD AND 4TH ORDERS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| PROCESSES AND PROPERTIES INDEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>CA</p> <p>Viscosity, melting and thickening of Ti slags of the system <math>\text{SiO}_2</math>, <math>\text{TiO}_2</math>, <math>\text{CaO}</math> at constant <math>\text{Al}_2\text{O}_3</math> content of 17% and <math>\text{MgO}</math> 8%. I. P. Semik. <i>Bull. Acad. Sci. U.S.S.R., Chem. Ind. Tech.</i> 1942, No. 3, 1, 37-55; <i>U.S.S.R. 36</i>, 12789. All practically possible Ti slags have a sharp transition from liquid to solid state. On full melting they have very low viscosity, provided they were not subjected to the reducing action of carbonaceous matter. The melting of Ti slags is determined by the <math>\text{CaO}/\text{SiO}_2</math> ratio, with optimum value of 0.9-1.0. Increased <math>\text{TiO}_2</math> content raises the m.p. of the slag. At optimal <math>\text{CaO}/\text{SiO}_2</math> ratio, the content of <math>\text{TiO}_2</math> may be as high as 25% without the need of fluxes in normal blast-furnace operation. Increase of <math>\text{TiO}_2</math> increases the rate of thickening of the slag; at const. <math>\text{TiO}_2</math>, this rate increases with decreased <math>\text{CaO}</math>. The presence of finely dispersed carbide in thickened <math>\text{TiO}_2</math> slag appears to be the reason for thickening and solidification of the slag. Blowing of air or <math>\text{O}_2</math> through thickened, or set, slag lowers its viscosity by several orders of magnitude; this may be the basis for an uninterrupted furnace operation with high <math>\text{TiO}_2</math> slags. G. M. Korolipod.</p> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| PROCESS AND PROPERTY INDEX                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |
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| <p><i>CH</i></p> <p>Blast furnace smelting of titanium ores. M. A. Boyko and I. P. Samik. USSR R. Bl. 101, Jan 31, 1964. The slag is periodically oxidized either by blowing air through it or by adding active oxidizers, e.g., pyrochrome, through the tuyeres. This transforms the lower Ti oxides into higher, and consequently increases the fluidity of slags rich in Ti.</p> <p style="text-align: right;">M. Hosh</p> |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |  |  |  |
| <p>ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION</p> <table border="1"> <tr> <td colspan="13">220N1 SYMBOLISM</td> <td colspan="13">220N1 SYMBOLISM</td> </tr> <tr> <td colspan="13">SYMBOLS</td> <td colspan="13">SYMBOLS</td> </tr> <tr> <td colspan="13">SYMBOLS</td> <td colspan="13">SYMBOLS</td> </tr> </table>                                                                                                       |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  | 220N1 SYMBOLISM |  |  |  |  |  |  |  |  |  |  |  |  | 220N1 SYMBOLISM |  |  |  |  |  |  |  |  |  |  |  |  | SYMBOLS |  |  |  |  |  |  |  |  |  |  |  |  | SYMBOLS |  |  |  |  |  |  |  |  |  |  |  |  | SYMBOLS |  |  |  |  |  |  |  |  |  |  |  |  | SYMBOLS |  |  |  |  |  |  |  |  |  |  |  |  |
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SEMEN, I. P.

PA 27771

USSR/Metals

Dec 1946

Slag, Blast Furnace  
Furnaces, Blast

"An Investigation of Viscosity and Fusibility of  
Standard (According to Pavlov) Blast Furnace Slag,"  
I. P. Semik, 17 pp

"Iz Ak Nauk, Otd Tekh Nauk" No 11-pp-1655-71

The article shows the results of determining the viscosity and fusibility of normal (according to Pavlov) blast-furnace slags and how this data was obtained. The data is compared with that obtained by several others working in the same field.

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SEMIK, I P

PA 3T8

USSR/Slag, Blast Furnace  
Manganese

Mar 1947

"The Viscosity and Desulphurizing Ability of Blast-furnace Slags with High Manganese Content," I P Semik, 4 pp

"Stal'" Vol VII, No 3 - p. 876-79

The investigation shows that such slags, with a high desulphurizing capacity, may have viscosity and fusibility fully corresponding to the condition of fusion for foundry cast iron. Illustrated with tables and graphs.

3T8

LYUBAN, A.P.; SEMIK, I.P.

Reduction of iron and other elements occurring as the charge descends.

Trudy Leningrad, Politekh. Inst. im. M.I. Kalinina '49, No.2, 167-218.

1 (CA 47 no.21:11098 '53)

(MLRA 6:3)

Semik, I. P.

One of the causes of hanging in the blast furnace. I. P. Semik. Nauch. Trudy. Dnepropetrovsk. Met. Inst. 1955, No. 33, 81-8; Referat. Zhur., Met. 1956, Abstr. No. 7247. Hanging is attributed to vaporization of SiO in the central part of the hearth, followed by condensation of solid SiO or SiO<sub>2</sub> on the upper layers of the charge. This decreases the gas permeability of the charge, and on further settling of the charge may produce a very acidic viscous slag, which with the particles of the charge will form an impervious arch.

Distr: 4E20

A. N. Pestoff

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*SEMİK, I.P.*

137-58-4-6634

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 45 (USSR)

AUTHOR: Semik, I. P.

TITLE: The Degree of Participation of the Hydrogen from Moisture Added by the Blast in Processes of Reduction Within the Blast Furnace, and a Method of Determining This Criterion (Stepen' uchastiya vodoroda iz dopolnitel'noy vlagi dut'ya v vosstanovitel'nykh protsessakh domennoy pechi i metod opredeleniya etogo pokazatelya)

PERIODICAL: V sb.: Issled. domennogo protsessa. Moscow, AN SSSR, 1957, pp 167-175

ABSTRACT: A portion of the  $H_2$  forming in the hearth of a blast furnace upon decomposition of the moisture in the blast (B) participates in the reduction processes (RP). This saves some coke, as a portion of the heat expended in the decomposition of the moisture is recovered in the middle and top sections of the furnace. A calculation method for the degree of participation of the  $H_2$  of the B in the RP, on the assumption of a constant ratio of gas to B and non-participation of the  $H_2$  of the B in reduction when the B is of natural moisture content, is described. The

Card 1/2



137-58-4-6634

The Degree of Participation (cont.)

calculations were based on data on the operation of the blast furnaces of the im. Dzerzhinskiy Works and the Kuznetskiy Metallurgical Kombinat, the average level of participation of  $H_2$  in RP having been 25-35 and 46% respectively.

Ye. V.

1. Blast furnaces--Operation    2. Hydrogen--Applications

Card 2/2

BELEVTSSEV, G.A.; GAVRILENKO, N.G.; GRINENKO, I.M.; KOROSTIK, P.O.;  
KOTEL'NIKOV, I.V.; KRASAVTSEV, N.I., kand. tekhn. nauk;  
MISHCHENKO, N.M.; POPOV, N.N., kand. tekhn. nauk; SEMIK, I.P.,  
kand. tekhn. nauk; TOTSKIY, G.P., kand. tekhn. nauk; SHESTOPALOV,  
I.I.; Prinimali uchastiye: SOLDATKIN, A.I.; SOLOMKO, V.P.;  
SOLOMATIN, A.M.; BOLOTSKIY, D.V.; ZAPOROZHETS, N.P.;  
BESSCHASTNYY, A.Ye.; SHVETS, N.Kh.; LIKHUNIN, S.D.; SHUMSKIY, L.B.;  
VAS'KOVICH, N.A.; YEROKHINA, A.I.; GELYUKH, B.A.

Desulfuration of pig iron in a fast-revolving and continuous  
drum. Met. i gornorud. prom. no.4:3-5 JI-Ag '65. (MIRA 18:10)

SEMIK, M.

History of our school maps. p.111. KARTOGRAFICKY PREHLED. (Ceskoslovenska akademie ved. Kabinet pro kartografii) Praha. Vol. 8, no. 3, Sept. 1954.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

SEMIK, M.

"The hundredth anniversary of the birth of the cartographer, Jan Suchanek;  
a biographic sketch."

p. 166 (Kartograficky Prehled) Vol. 10, no. 4, Dec. 1956  
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

SLMIA, I.

"History of the former Military Geographical Institute in Vienna."

SEORNIK, Praha, Czechoslovakia, Vol. 64, No. 1, 1959.

Monthly list of EAST EUROPEAN ACCESSIONS INDEX (EEAI), Library of Congress,  
Vol. 8, No. 8, August, 1959.

Classified.

SEMIK, M.

Czechs in the former Military Geographical Institute in Vienna. p. 232

Ceskoslovenska spolecnost zemepisna. SBORNIK . Praha, Czechoslovakia, Vol. 64,  
no. 3, 1959

Monthly List of East European Accessions (EEAI), IC' Vol. 8, no. 11, Nov. 1959  
Uncl.

SEMIK, P.

Productional ties between collective farms. Nauka ipered.op  
v sel'khoz. 9 no.8:64-67 Ag '59. (MIRA 12:12)

1. Zamestitel' zaveduyushchego sel'skokhozyaystvennym otdelem  
TSentral'nogo komiteta Kommunisticheskoy partii Ukrainy.  
(Collective farms)

ACCESSION NR: AT4019736

S/0000/63/000/000/0056/0061

AUTHOR: S'omik, V. P. (Semik, V. P.)

TITLE: The question of algorithmizing programming programs"

SOURCE: AN UkrRSR. Insty\*tut kibernet\*ky\*. Obchy\*slyuval'na matematy\*ka i tekhnika (Computer mathematics and engineering). Kiev, Vy\*d-vo AN UkrRSR, 1963, 56-61

TOPIC TAGS: programming program, algorithm, coding algorithm, digital computer

ABSTRACT: The author discusses the question of automating the process of constructing "programming programs". For an address language, the author proposes to divide the algorithms of the "programming program" into two parts by means of selecting the machine style. The first part will not depend on the peculiarities of specific digital computer. This permits making use of the already established programming program, by changing only the coding algorithm for the specific digital computer. Orig. art. has: 17 equations.

ASSOCIATION: none

Card 1/2



SAPUNOV, G.I.; SEMIK, V.V.; ROYAK, L.F.

Automatic photoelectronic scales. Ogneupory 28 no.11:495-  
497 '63. (MIRA 16:12)

1. Panteleymonovskiy ogneuporny zavod im. K. Marksa.

MAKOV, K.I., prof. Prinimala uchastiye GRUDINSKAYA, I.T., gidrogeolog.  
 CHERNYSHEV, B.I., otv.red.; SEMIKHATOV, A.N., prof., red.;  
 PRILUTSKIY, G.L., tekhn.red.

*Deceased  
1958*

[Hydrogeology of the U.S.S.R.; the Urals] Gidrogeologiya SSSR;  
 Ural. Moskva, Izd-vo Akad.nauk USSR. Book 2. [Underground  
 waters of the Bashkir A.S.S.R.] Podzemnye vody Bashkirskoi  
 ASSR. Red.A.N.Semikhatov. Pt.1. [Text] Tekst. 1946. 355 p.  
 (MIRA 15:5)

1. Akademiia nauk URSR, Kiev. Instytut geologichnykh nauk.
2. Deystvitel'nyy chlen AN USSR (for Chernyshev).

(Bashkiria—Water, Underground)

*Aleksandr Nikolayevich SEMIKHATOV - obituary  
 Bulletin' Moskovskogo obshchestva  
 ispytateley prirody - Otdel geologicheskoy  
 1958 No. 2 p. 120*

VARSANOF'YEVA, V.A., prof.; SEMIKHATOV, B.N., red.; PONOMAREVA, A.A., tekhn.  
red.

[Programs of pedagogical institutes; geology for natural science  
faculties] Programmy pedagogicheskikh institutov; geologiya dlia  
fakul'tetov estestvoznaniia. Moskva, Gos. uchebno-pedagog. izd-vo  
M-va prosv. RSFSR, 1955. 31 p. (MIRA 11:9)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i  
srednikh pedagogicheskikh uchebnykh zavedeniy.  
(Geology--Study and teaching)

StMIKHATOV, Boris Nikolaevich.

Geological excursions in the vicinity of Moscow; work experience. Moskva, Gos. uchebno-pedagog. izd-vo, 1955. 88 p. (55-44427)

QE45.S45

*Geology 11:3*

VARSANOF'YEVA, V.A., prof.; SEMIKHATOV, B.N., prof.; RAVIKOVICH, A.I., dots.;  
TITOV, A.G.; MAKSAYEV, A.V., tekhn.red.

[Programs of pedagogical institutes; geology] Programmy pedagogicheskikh institutov; geologiya. Moskva, Gos. uchebno-pedagog. izd-vo  
M-va prosv. RSFSR, 1957. 21 p. (MIRA 11:3)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye vysshikh i  
srednikh pedagogicheskikh uchebnykh zavedenii.  
(Geology--Study and teaching)

5-1111111111, 1111111111  
MOSKVIN, M.M.; SEMIHATOV, M.A.

Underwater solifluctional disturbances in upper Cretaceous and  
Paleogene deposits of Daghestan. Izv.AN SSSR.Ser.geol.21 no.10:67-  
84 0 '56. (MLBA 10:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.  
(Daghestan--Geology, Stratigraphic)

REPINA, L.N.; SEMIKHATOV, M.A.; KHOMENTOVSKIY, V.V.

Stratigraphy of Cambrian deposits in the western regions of Eastern Sayan. Dokl.AN SSSR 110 no.1:133-136 S-0 '56. (MLBA 9:11)

1. Institut geologicheskikh nauk Akademii nauk SSSR. Predstavleno akademikom N.S.Shatskim.

(Sayan Mountains--Geology, Stratigraphic)

SEMIKHATOV, M.A.; KHOMENTOVSKIY, V.V.

Stratigraphy of pre-Cambrian deposits of the western part of  
the Eastern Sayan. Dokl. AN SSSR 110 no.2:273-275 S. '56.  
(MLRA 9:12)

1. Institut geologicheskikh nauk Akademii nauk SSSR. Predstavleno  
akademikom N.S. Shatskim.  
(Sayan Mountains--Geology, Stratigraphic)



*Semikhatov, M.A.*

20-6-35/48

AUTHOR: Semikhatov, M.A.

TITLE: On the Stratigraphy of the Aldan Stage of the Lower Cambrian of the Kansk-Angara Depression (K stratigrafii aldanskogo yarusy nizhnego kembriya Kansk-Angarskoy vpadiny)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 115, Nr 6, pp. 1181 - 1184 (USSR)

ABSTRACT: In works hitherto written on the region mentioned in the title no attempts were made to put the cross sections individually together and to follow their facial changes. The author therefore studied this problem in the region from Kansk in the south to the Irkinayev river in the northeast. At the lower course of this river the above-mentioned sediments are represented by a 250 m thick stratum of fine- and middle-grained quartz rocks with oblique layers and cherry-red as well as brown colors. About in the middle of this stratum a 20 - 25 m thick package of grey and greenish-grey, in places cherry-red striped sandstones emerges, which are alternately deposited with greenish-grey argillites and marls and sometimes with dolomites. This stratum covers with an angular concordance, various suites of the Proterozoic and toward the top goes over

Card 1/4

20-6-35/48

On the Stratigraphy of the Aldan Stage of the Lower Cambrian of the Kansk-Angara Depression

Zherzhul' suites of the north of the Yenisey range. The Ale-shin suite apparently is analogous to the Uda-horizon and to the flysh-like package of the Porozhikhin suite. From this may be seen that a deep deflection followed the recent western edge of the Kansk-Angara depression in the Aldan period. On the whole it took a north-south course. Reliable data on the western boundary are absent. In the east its edge is well followed. It may be assumed that the entire thickness of the Aldan stage amounts to 1700 - 1900 m and in places decreases to 100 m. Thus its thickness only slightly increases when one moves from the inner parts of the Siberian platform toward the deflection bordering it in the west. The transition to big thicknesses takes place in a narrow zone which in the Cambrian apparently formed a kind of flexure. It separated the platform from the slope (near to the platform) of the deflection, which slope no doubt held a border position in the Caledonian geosynclinal. This zone crosses the Angara river near Vydumskiy Byk and extends in a northwestern direction. There are 5 Slavic references.

Card 3/4

SOV/11-58-11-4/14

AUTHORS: Grigor'yev, V.N. and Semikhatov, M.A.

TITLE: On the Age and Origin of the So-Called "Tillites" in the Northern Part of the Yenisey Ridge (K voprosu o vozraste i proiskhozhdenii tak nazyvayemykh "tillitov" severnoy chasti Yeniseyskogo Kryazha)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1958, Nr 11, pp 44 - 58 (USSR)

ABSTRACT: The authors describe peculiar pebbly mudstones widely spread in the northern part of the Yenisey Ridge. These pebbly argillites are considered by some geologists as tillites - glacial conglomerates of ancient Proterozoic origin. After careful study of these "Tillites" and of the surrounding rocks, the authors find that they were formed in the Lower Cambrian Period and represent normally formed maritime conglomerates accumulated at the foot of cordillera and displaced over large distances by underwater landslides. The following geologists cited by the authors have also studied this problem: Ye.N. Shchukina, O.P. Goryainova, E.A. Fal'-

Card 1/2

SOV/11-58-11-4/14

On the Age and Origin of the So-Called "Tillites" in the Northern Part of  
th Yenisey Ridge

kova, G.F. Lungersgauzen, V.P. Petrov, and Ya.D. Shenkman.  
There are 3 photos, 1 map, 1 table, 1 drawing and 23 refer-  
ences, 17 of which are Soviet, 1 German, 1 Japanese and 4  
American.

ASSOCIATION: Geologicheskii Institut AN SSSR (The Geological Institute of  
the AS USSR)

SUBMITTED: March 31, 1958

1. Rock--Geology 2. Geological time--Determination

Card 2/2

3(5)

SOV/11-59-7-8/17

AUTHOR: Semikhatov, M.A.

TITLE: The Stratigraphy and Geological History of Lower Cambrian Rocks in the Northern Part of the Yeniseyskiy Mountain Range.

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 7, pp 74-89 (USSR)

ABSTRACT: The author gives a detailed description of Lower Cambrian formations of the northern part of the Yeniseyskiy Mountain Range. This region has been studied since the end of the XIX century. The author cites the following geologists who worked in the region: L.A.Yachevskiy, I.G. Nikolayev, A.W. Churатов, T.M. Dembo, G.I.Kirichenko, the members of the Evenkiyskaya ekspeditsiya Vsesoyuznogo aerogeologicheskogo tresta (the Evenki Expedition of the All-Union Aero-Geological Trust) (O.P. Goryainova, G.F.Lungersgauzen, R.I.Miloserdova, N.E.Shul'ts, Ya.D.Sherkman and E.A. Fal'kova), O.A.Gliko, F.F.and Ye.K.Kovrigin, Ye.V.

Card 1/4

SOV/11-59-7-8/17

The Stratigraphy and Geological History of Lower Cambrian Rocks in the Northern Part of the Yemseyskiy Mountain Range.

- Fokrovskiy, G.S. Nesmikh, graduated MGU student Ye.A. Yelkin, A.Kh. Ivanov, I.G. Nikolayev, N.P. Verbitskaya, M.A. Apenko, F.F. Il'in, I.V. Vorob'yev, Yu. R. Mazon, V.M. Chairkin, S.S. Gurvich, G.A. Kudryavtsev, V.V. Khomentovskiy, and D.P. Goryainova. According to the author, the Lower Cambrian formations of the region are divided into five suites: the Lopatinskaya, the Lopatinskaya, the Chivdinskaya, the Vorogovskaya, the Nemchinskaya and the Lebyazhinskaya. The first four conditionally belong to the Aldan stage and the last - to the Lena stage of the Lower Cambrian period. The Lopatinskiy suite is composed of red-brown conglomerates, 3 m thick and forming the foundation on which 400-450 m thick stratum of cherry-red, fine grained sandstones is placed. The Chivdinskaya suite is composed of variegated terrigenous rocks and dolomites; its composition and the thickness of different rocks vary

Card 2/4

SCV/11-59-7-8/17

The Stratigraphy and Geological History of Lower Cambrian Rocks in the Northern Part of the Yemseyskiy Mountain Range.

all along the mountain range. The Vorogovskaya suite, coincident in time with the Chividsinskaya, is composed of dolomites, limestones, aleurolites and sandstones. The Nemchanskaya suite is composed of cherry-red medium grained sandstones, dolomites, argillites and aleurolites. The author compiled a plan for comparing the importance of these suites in different parts of the region. The last, the Lebyazh'ya suite, is composed of dolomites intersected by thick strata of limestone. All these suites are superposed conformingly and form a single sedimentation cycle, all four are equally dislocated and metamorphized. In this, they are different from the underlying Proterozoic suites they cover with an angular non-conformity and deep erosion. As to the geological history of the Lower Cambrian formations, the author says that at the beginning of the Cambrian period, two depressions with a dividing

Card 3/4

SOV/11-59-7-8/17

The Stratigraphy and Geological History of Lower Cambrian Rock in the Northern Part of the Yemseyskiy Mountain Range.

elevation were formed in the northern part of the Yemseyskiy Mountain range. The Lopatinskaya and Chividskaya suites were accumulated in the eastern Teya depression and the Vorogovskaya suite - in the western depression adjacent to the Yenisey river. The development of these structures continued in the Nemchany time. The Teya depression became 4 km deep but was completely filled up by the sedimentary strata of the Nemchanskaya suite. There are 2 maps, 2 sets of diagrams and 13 Soviet references.

ASSOCIATION: Geologicheskii Institut AN SSSR, Moskva ( Geological Institute of the AS USSR, Moscow)

SUBMITTED: January 3, 1959

Card 4/4



KHOMENTOVSKIY, Vsevolod Vladimirovich; SEMIKHATOV, Mikhail Aleksandrovich;  
REPINA, Lada Nikolayevna; SHATSKIY, N.S., akademik, glavnyy red.;  
MENNER, V.V., zamestitel' glavnogo red.; KELLER, B.M., red.toma;  
VERSTAK, G.B., red.izd-va; KASHINA, P.S., tekhn.red.

[Areal geology of the U.S.S.R.] Regional'naya stratigrafiya SSSR.  
Glav.red.N.S.Shatskii. Moskva. Vol.4. [Pre-Cambrian stratigraphy  
and lower Paleozoic sediments of the western part of the Eastern  
Sayan Mountains] Stratigrafiya dokembriiskikh i nizhnepaleozoiskikh  
otlozhenii zapadnoi chasti Vostochnogo Saiana. [Lower and middle  
Cambrian trilobite complexes in the western part of the Sayan  
Mountains] Kompleksy trilobitov nizhnego i srednego kembriya za-  
padnoi chasti Vostochnogo Saiana. 1960. 235 p. (MIRA 13:4)

1. Akademiya nauk SSSR. Geologicheskii institut.  
(Sayan Mountains--Geology, Stratigraphic)  
(Sayan Mountains--Trilobites)

KELLER, B.M.; KAZAKOV, G.A.; KRYLOV, I.N.; NUZHNOV, S.V.; SEMIKHATOV, M.A.

New stratigraphic data on the Rhiphaeus group (upper Proterozoic).  
Izv. AN SSSR. Ser. geol. 25 no.12:26-41 D '60. (MIRA 13:11)

1. Geologicheskii institut AN SSSR, Moskva.  
(Ural Mountains--Geology, Stratigraphic)

SEMIKHATOV, M.A.

Vertical distribution of Rhiphaean stromatolites in Turukhansk District. Dokl. AN SSSR 135 no.6:1480-1483 D '60. (MIRA 13:12)

1. Geologicheskii institut Akademii nauk SSSR. Predstavleno akademikom N.S. Shatskim.

(Turukhansk District—Geology, Structural)

SEMIKHATOV, M. A.

Cand Geol-Min Sci - (diss) "Stratigraphy of Riphean and Lower Cambrian deposits of the Yenisei ridge and the distribution therein of columnar stromatolites." Moscow, 1961. 30 pp; (Academy of Sciences USSR, Geological Inst of the Moscow Order of Lenin and Order of Labor Red Banner State Univ imeni M. V. Lomonosov); 200 copies; price not given; list of author's works at end of text (11 entries); (KL, 5-61 sup, 180)

GRIGOR'YEV, V.N.; SEMIKHATOV, M.A.

Basic types of lower Cambrian sedimentary formations in the  
southwestern margin of the Siberian Platform and its environs.  
Izv.AN SSSR. Ser.geol. 26 no.1:30-45 Ja '61. (MIRA 15:6)

1. Geologicheskii institut AN SSSR, Moskva.  
(Siberian Platform--Rocks, Sedimentary)

SEMIKHATOV, Mikhail Aleksandrovich; KHOMENTOVSKIY, V.V., otv.red.;  
SHEYNMAN, V.Z., red.izd-va; NOVICHKOVA, N.D., tekhn.red.

[Riphean and Lower Cambrian in the Yenisey Ridge] Rifei i  
nizhnii kembrii Eniseiskogo kriazha. Moskva, Izd-vo Akad.  
nauk SSSR. 1962. 239 p. 18 plates. (Akademiia nauk SSSR.  
Geologicheskii institut. Trudy, no.68). (MIRA 16:2)  
(Yenisey Ridge—Geology)

BERZIN, N.A.; MISSARZHEVSKIY, V.V.; SEMIKHATOV, M.A.

Structure of the Kichenskaya series in the main fault zone of the  
Eastern Sayan Mountains. Geol. i geofiz. no.2:28-43 '63.

(MIRA 16:5)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,  
Novosibirsk i Geologicheskii institut AN SSSR, Moskva.  
(Sayan Mountains--Geology)

ZHURAVLEVA, Z.A.; SEMIKHATOV, M.A., otv. red.; PEYVE, A.V., glavnyy red.;  
KUZNETSOVA, K.I., red.; MENNER, V.V., red.; TIMOFEEYEV, P.P., red.

[Riphean and Lower Cambrian Oncolithes and Catagraphes of Siberia  
and their stratigraphic importance.] Onkolity i katagrafiy rifeia i  
nizhnego kembriia Sibiri i ikh stratigraficheskoe znachenie. Moskva,  
Nauka, 1964. 72 p. illus. (Akademiia nauk SSSR. Geologicheskii ir-  
stitut. Trudy, no.114). (MIRA 17:9)

1. Chlen-korrespondent AN SSSR (for Peyve).



SEMIKHATOV, M.A.

Proterozoic. Izv. AN SSSR. Ser. geol. 29 no. 2:66-84 F '64.  
(MIRA 17:5)

1. Geologicheskii institut AN SSSR, Moskva.

KOMAR, V.I.A.; SEMIKHATOV, M.A.

Late Cambrian geological history of the Siberian Platform. Dokl.  
AN SSSR 161 no.2:421-424 Mr '65. (MIRA 18:4)

1. Geologicheskoy institut AN SSSR. Submitted November 5, 1964.

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Methods for studying stromatolites Conophyton and their stratigraphic significance. Dokl. AN SSSR 161 no.5:1165-1168 Ap '65. (MIRA 18:5)

1. Geologicheskiiy institut AN SSSR. Submitted November 5, 1964.

SEMIKHATOV, M.A.; KHOMENTOVSKIY, V.V..

Geological prerequisites of the bauxite potential of sediments  
of the Wendish complex of the Manskoye synclinorium (Eastern  
Sayan). Biul. MOIP. Otd. geol. 39 no.3:41-56 My-Je '41.  
(MIRA 17:12)

SEMIKHATOV, M.A.; KHOMENTOVSKIY, V.V.

Stratigraphy of the Upper Cambrian in the western part of the Eastern Sayan Mountains. Geol. i geofiz. no.7:97-102 '64.

(MIRA 18:8)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

SEMIKHATOV, M.A.; TRAPEZNIKOV, Yu.A.

Southwestern boundary of the Siberian Platform in the Wensian  
and Early Cambrian. Geotektonika no.4:36-53 JI-Ag '65.

(MIRA 18:8)

L. Geologicheskii institut AN SSSR.

BERZIN, N.A.; SEMEKHAEV, M.A.

Facies changes of Upper Pre-Cambrian sediments in the northern wing of the Eastern Sayan anticlinorium. Geol. i geofiz. no.1: 132-142 '65. (MIRA 18:6)

I. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

KOMAR, V.A.; RAAHEN, M.Ye.; SEMIKHATOV, M.A.; MENNER, V.V., otv. red.;  
PEYVE, A.V., akademik, glavnyy red.; KUZNETSOVA, K.I., red.;  
TIMOFEYEV, P.P., red.

[Conophytos in the Riphean of the U.S.S.R. and their stratigraphic importance.] Konofitony rifeia SSSR i ikh stratigraficheskoe znachenie. Moskva, Nauka, 1965. 71 p. (Akademiia nauk SSSR. Geologicheskii institut. Trudy, no.131) (MIRA 18:9)



POMERANTSEV, A.A., doktor fiziko-matematicheskikh nauk, prof.; SEMIKHATOV,  
S.N., doktor tekhn.nauk, prof.

"Vacuum condensers of the chemical machinery manufacture" by  
K.P.Shumskii. Reviewed by A.A.Pomerantsev, S.N.Semikhatov.  
Khim.mash. no.2:46-47 Mr '62. (MIRA 15:3)  
(Condensers (Vapors and gases))

ACCESSION NR: AR4034736

S/0124/64/000/003/B110/B110

SOURCE: Ref. zh. Mekhan., Abs. 38676

AUTHOR: Bobe, L. S.; Semikhatov, S. N.

TITLE: The criteria of similarity, which describe the process of heat and mass exchange in the condensation of a two-component mixture of vapors

CITED SOURCE: Tr. Vses. n.-i. i konstrukt. in-t khim. mashinostr., vy\*p. 44, 1963, 26-33

TOPIC TAGS: hydrodynamics, hydromechanics, heat-exchange, mass-exchange, energy transfer, diffusion, boundary layer, similarity theory

TRANSLATION: On the basis of the similarity theory, the mutually connected processes of mass and heat exchange during the condensation of a two-component mixture of vapors forming a mutually soluble condensate are studied. The physical model of the process suggested by L. D. Berman (Zhurnal Tekhnicheskoy Fiziki, 1958, 28, No 11, 2717-2629) is accepted. From a system of equations describing the transfer of a quantity of motion, mass, and energy in a two-dimensional stationary flat laminar boundary layer and from boundary conditions, criteria of similarity are obtained.

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ACCESSION NR: AR4034736

The system of criteria obtained is similar to Bermans system of criteria, with the exception of the criteria for calculating the specifics of the process, which include the fact that during condensation from a steam-gas mixture, diffusion through a semipermeable partition takes place, and when a mixture of steam is condensed, diffusion through a fully-permeable partition takes place, a nondimensional equation obtained from the preliminary results of experimental study is cited. The experiments were made on various concentrations of mixtures (ethanol-water, acetone-water, ethanol-propanol, ethanol-butanol) in the following range of measurements of parameters:  $q = 7,000-130,000$  kilocalories/sq meter-hour,  $\Delta t = 4-50^\circ$ ,  $K_v = 9-170$ ,  $R = 2-230$ ,  $Ar = (1.8-13) \times 10^4$ .

DATE ACQ: 02Apr64

SUB CODE: PH, MM

ENCL: 00

Card 2/2

BOBE, I.S., inzh.; SEMIKHATOV, S.N., doktor tekhn. nauk

Calculation of the surface of heat and mass transfer in the  
condensation of the vapors of binary mixtures. Khim.mashinostr.  
no.2:12-17 Mr-Ap '64. (MIRA 17:4)

SEMUKHATOVA, N. A.

USSR/Microbiology - Industrial Microbiology

F-2

Abstr Jour : Ref Zhur - Biol., No 5, 1956, 19462

Author : Semukhatova, N. A., Chulina, S. I.

Instit : -

Title : Osmosensitivity of Bakers' Yeast.

Orig Pub : Khlebopech. i Konditerch. prom-st, 1957, No 2, 31-33

Abstract : It was shown that bakers' yeasts, which have a standard leavening power, may exhibit various osmosensitivities. Utilization of osmosensitive yeasts for preparing dough causes an insufficient rising of dough in the pan and as a result the quality of the bread baked is impaired. Osmosensitive yeasts develop more slowly than osmostable yeasts; and therefore when they are used as the starting point in yeast production they will produce a lesser yield of commercial product (70% of raw material). Also, osmosensitive yeast keeps poorly at 40°; its osmosensitivity

Card 1/2

USSR/Microbiology - Industrial Microbiology

F-3

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001547910016-7

Abstr Jour : Ref Zhur - Biol., No 5, 1956, 19462

over 3 days is increased by 14-19 minutes, while the osmostable yeasts do not change when stored.

Card 2/2

SEMUKHATOVA, N. A., PLEVAKO, Ye. A., BAKUSHINSKAYA, O. A.

*SEMUKHATOVA, N.*

NEGREBETSKIY, G.; SEMIKHATOVA, N.

Upper Tertiary and Quaternary pebbles of steppe and piedmont  
Crimea. Zemlevedenie 4:246-248 '57. (MLRA 10:9)  
(Crimea--Pebbles)

SEMIKHATOVA, N.B. (Moskva)

Spaces of the Antarctic ("Journey to the Antarctic Ocean and around  
the world" by B.A.Zenkovich. Reviewed by N.B.Semikhatova). Priroda.  
50 no.6:122 Je '61. (MIRA 14:5)

(Voyages and travels)  
(Zenkovich, B.A.)

SEMIKHATOVA, N.B. (Moskva)

"In the name of the eternal generosity of nature" by IU.K.Efremov.  
Reviewed by N.B.Semikhatova. Priroda 51 no.4:124 Ap '62.  
(MIRA 15:4)  
(Conservation of natural resources)



SEMIKHATOVA, N.B. (Moskva)

Deserts will serve the people. Priroda 51 no.8:120-122 Ag '62.  
(MIRA 15:9)  
(Soviet Central Asia—Reclamation of land)

SEMIKHATOVA, N.B. (Moskva)

"Petroleum and gas of Turkmenistan" by S. Shakharov. Reviewed  
by N.B. Semikhatova. Priroda 51 no.10:46 0 '62. (MIRA 15:10)  
(Turkmenistan--Petroleum)  
(Shakharov, S.)

VERESHCHAGIN, N.M. (Moskva); SEMIKHATOVA, N.B. (Moskva); KULAKOV, V.Ye.;  
YAKOVLEV, Yu.Ya. (Moskva); PONOMAREV, D.N. (Moskva)

Books. Priroda 54 no.10:39,66,103,122-124 '65.

(MIRA 18:10)

1. Leningradskiy pedagogicheskiy institut im. A.I.Gertsena (for  
Kulakov).

SEMIKHATOVA, N.B. (Moskva)

Freaks of Russian forests. Priroda 54 no.7:80-81 J1 '65.  
(MIRA 18:7)

SEMIKHATOVA, N.M.; VOLODINA, T.I.

Determining the degree of suitability of new hybrid yeast  
cultures for yeast plants. Trudy Inst.gen. no.35:69-75 '65.  
(MIRA 18:12)

SEMINNATOVA, I. I.

Dissertation: "A Change in the System of Culturing Baker's Yeasts to Improve the Quality of the Dehydrated Product of Molasses-Yeast Factories." Cand Tech Sci, Moscow Inst of National Economy, Moscow, 1953. (Referativnyi Zhurnal--Khimiya, Moscow, No 5, Mar 54)

SO: SUM 243, 19 Oct 1954

PLEVAKO, Ye.A.; SEMIKHATOVA, N.M.

Search for disinfectants with a selective action on foreign  
yeast fungus in the process of baker's yeast growing. Trudy  
TSNIIKHP no.8:158-162 '60. (MIRA 15:8)  
(Yeast)

PLEVAKO, Ye.A.; SEMIKHATOVA, N.M.

Developing efficient methods for growing new yeast strains with the aim to obtain starter and pitching yeast of high propagation capacity. Trudy TSNIKHHP no.10:159-163 '62.

(MIRA 18:2)



Semikhatoval O. A.

USSR

GERM.

✓ The relation between respiration and the water retention capacity of plant leaves. O. A. Semikhatoval, *Bein. Zhur.* 35, 401-8(1950); *Chem. Zentr.* 1951, II, 3163.—In order to study the relation between water retention capacity and respiration, the leaves of oats were weighed before and after a period of 18-24 hrs. of anaerobiosis, during which the humidity was kept low and the temp. approx. const. The rate of loss of water was much higher for the leaves subjected to anaerobiosis than for the controls. Since the moist wt. per sq. cm. of leaf surface remained almost unchanged, the sharp reduction in water retention capacity could not be explained by a reduced water content. It was likewise demonstrated that neither damage or death of the leaf cells, modified transpiration, nor a change in the osmotic pressure of the cell fluid could account for the reduced water retention capacity. Leaves of various ages with a high initial respiration rate showed a very marked drop in water retention capacity when respiration was suspended.

M. G. Moore

SEMIKHATOVA, O.A.

Thermal coefficients of catalase in Pamirs plants. Izv. Otd. est. nauk AN  
Tadzh. SSR no. 1:9-19 '52. (MLRA 9:10)

1. Institut botaniki Akademii nauk Tadzhikskoy SSR.  
(Pamirs--Catalase)

SEMIKHATOVA, O.A.

Some peculiarities of the oxygen respiration of the plants of the Pam'r  
highlands. Trudy. Bot. inst. Ser. 4 no. 9: 132-154 '53. (MLBA 6:6)

1. Botanicheskiy institut imeni V.L. Komarova akademii nauk SSSR.  
(Pamirs--Phytogeography) (Plants--Respiration)

*SEMIKHATOVA, O.A.*

ZALENSKIY, O.V.; SEMIKHATOVA, O.A.; VOZNESENSKIY, V.L.; KONOVALOV, I.N.,  
redaktor; YAKOVLEVA, V.M., redaktor; KARYAKIN, A.V., redaktor;  
ABONS, R.A., tekhnicheskii redaktor.

[Using radioactive carbon  $C^{14}$  in the study of photosynthesis]  
Metody premeneniia radioaktivnogo ugleroda  $C^{14}$  dlia izucheniiia  
fotosinteza. Moskva, Izd-vo Akademii nauk SSSR, 1955. 88 p.  
(Photosynthesis) (MLRA 8:11)  
(Carbon--isotopes)

SEMIKHATOVA, O.A.

Role of the principal oxidase groups in the respiration of high-  
-altitude plants of the Eastern Pamirs. Trudy Bot.inst.Ser.4 no.1C:  
296-308 '55. (MLRA 9:5)  
(Pamirs--Plants--Respiration) (Oxidases)

SEMIKHATOVA O.A.

1001-BM

The utilization of carbon-14 in a study of respiration under variable temperatures. O. A. Semikhatova and T. P. Sitan'ko. *Botan. Zhurnal* 66: 1001-1005, 1981. Expts. with *Artemisia ikornikavii* in atm. contg. some  $C^{14}O_2$  were conducted under temp. varying from  $-17^{\circ}$  to  $-5-6^{\circ}$  and  $+13-15^{\circ}$  after the plant had been exposed to light at  $16^{\circ}$  for 30 and 60 min. At  $13-15^{\circ}$  and  $-5-6^{\circ}$  there is an impoverishment of radioactive C in the fraction of the insol. residue and a slight increase in activity of the alc. fraction. At temps.  $-11-12^{\circ}$  the fraction of the insol. residue does not lose the radioactivity. On the contrary, it increases slightly. At temps. where respiration is interrupted with there is again a decrease in activity of the insol. fraction and at the same time there is a decrease in the alc. fraction. The details of the expts. are well described. 17 references. J. S. Jaffe

RML

SEMIKHATOVA, O. A.

USSR/Plant Physiology - Respiration and Metabolism.

I-2

Abs Jour : Ref Zhur - Biol., No 5, 1958, 19927

Author : Senikhatova, O.A.

Inst : Botanical Institute of the Academy of Sciences.

Title : On Changes in the Respiration of Pamir Plants Due to Sharp Changes in Temperature.

Orig Pub : Tr. Botan. inst. AN USSR, 1956, ser. 4, vyp. 11, 62-96

Abstract : The respiration of leaves of 9 species of high mountain plants (*Artemisia skornakowib* S. Winkl. *Zygophyllum rosvii* Bge., *Eurotia ceratoides* S.A.M. and others) was determined by the method of differential manometry. The leaves were cut from the middle portions of one-type shoots, weighed and placed in tin-foil beakers and then placed in Diuar vessels for 3 hours. Afterwards the leaves were transferred into manometric containers and

Card 1/2

USSR/Plant Physiology - Respiration and Metabolism

Abs Jour : Ref Zhur - Biol., No 5, 1958, 19927

in 30 minutes their respiration was determined. Temperatures, ranging from negative low to room temperature, as well as from positive high to room temperature acted differently on respiration. On the basis of obtained results the author divided the temperature scale into areas of normal respiration, disturbed respiration, and impaired respiration, and set limits for these areas for each of the studied plants. Some plants had the capacity to deviate from these limits in connection with changes in the temperature of their habitat, as well as in connection with prolonged browning. It was inferred from this, that the changes in intensity and in the course of respiration in plants observed in Eastern Pamir were due to the sharp changes in temperature characteristic of high altitudes.

Card 2/2

SEMIKHATOVA, O.A.

Activities of the Section of Plant Physiology and Biochemistry of the  
All-Union Botanical Society in 1956. Bot. zhur. 42 no.5:821-823 My '57.

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR, Lenin-  
grad.

(Botanical research)



SEMIKHATOVA, O. A.

USSR / Plant Physiology. Mineral Nutrition.

I-3

Abs Jour : Ref Zhur - Bil., No 10, 1958, No 43744

Author : Esel'niker, Yu. L.; Semikhatova, O. A.

Inst : Not given

Title : On the Relationship Between the Vegetative and the Generative Stages of Development in the Shoots of Certain Trees.

Orig Pub : Botan. zh., 1957, 42, No. 7, 1044-1054.

Abstract : Investigations of concrete forms of connection between the vegetative and generative stages of development in a number of tree species which were made in Georgia and Podmoskov'ye have indicated that they differ in trees with a different degree of specialization in the shoots at the crown. In the tung tree (*Aleurites fordii* and *A. cordata*) which has no specialization of shoots, a slowing up of vegetative shoot development causes a delay in and the stopping of flowering. The citrus trees (lemon *Citrus limonia* and the orange C.

Card 1/2

ZALENSKIY, O. V. , SEMIKHATOVA, O. A. and VOZNESENSKIY, V. L.

SEMIKHATOVA, O.A.

"Quantitative Methods of Investigation of Photosynthesis ~~z~~ with the Aid of Radioactive Carbon."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

SENIN, D.A., Cand Agr Sci -- (diss) "Local stock of  
azotobacter, its effectiveness and conditions of application."

Voronezh, 1948, 19 pp (Min of Agr USSR. Voronezh Agr Inst)

120 copies (KL, 27-58, 11h)

- 175 -

S E M I K H A J A V A , O . A .

## FRANK A. BOOK EXPLANATION 807/2713

International Conference on the Peaceful Use of Atomic Energy. 2nd, Geneva, 1958

Booklet sovetskikh uchenykh, polucheniye i primeneniye izotopov (Reports of Soviet Scientists); Production and Application of Isotopes. Moscow, Atomizdat, 1959. 368 p. (Series: "Iz" Trudy, vol. 6) 8,000 copies printed.

Eds. (Title page): G.Y. Rudyumov, Academician, and I.I. Rorikov, Corresponding Member, USSR Academy of Sciences; Ed. (Inside book): Z.D. Akhryunko; Tech. Ed.: Z.D. Akhryunko.

Purpose: This book is intended for scientists, engineers, physicians, and biologists engaged in the production and application of atomic energy to peaceful uses; for professors and graduate and postgraduate students of higher technical schools where nuclear science is taught; and for the general public interested in atomic science and technology.

COVERAGE: This is volume 6 of a 6-volume set of reports delivered by Soviet scientists at the Second International Conference on the Peaceful Use of Atomic Energy held in Geneva from September 1 to 13, 1958. Volume 6 contains 22 reports on: 1) modern methods for the production of stable radioactive isotopes and their industrial uses; 2) research results obtained with the aid of isotopes in the field of chemistry, metallurgy, machine building, and agriculture; and 3) chemistry of ionizing radiation. Volume 6 was edited by G.Y. Rudyumov, Academician, and I.I. Rorikov, Candidate of Physical Sciences, USSR Academy of Sciences; and V.Y. Sedov, Candidate of Physical Sciences. See 807/2081 for titles of volumes of the set. References are given at the end of the articles.

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 16. Mbergal, A.Y., V.I. Karpov, and V.I. Sinityn. Cobalt Sources of High Intensity for Radiative Action (Report No. 2234)                                                                             | 200 |
| 17. Gusev, M.G., Ye. Ye. Kovalov, and V.I. Popov. Gamma Radiation Inside and Outside Extended Sources (Report No. 2085)                                                                               | 211 |
| 18. Aglintsev, K.K., M.A. Bak, V.Y. Bobkhar, Ye.G. Grishchik, Z.Y. Yershova, and E.A. Petrishak. System of Radiometric Measurement of Radioactive Isotopes (Report No. 2307)                          | 227 |
| 19. Aglintsev, K.K., V.P. Kostkin, V.Y. Mitrofanov, and V.Y. Sedov. Application of Radiometric Spectroscopy Methods to Beta and Gamma-Ray Dosimetry (Report No. 2303)                                 | 237 |
| 20. Kurovov, P.G., V.I. Gol'danskiy, and V.B. Ruzgov. Instrument for Measuring Small Streams of High-energy Neutrons (Report No. 2083)                                                                | 244 |
| 21. Chibakov, A.A., V.I. Polikarpov, and V.A. Kulashova. Measuring and Analyzing Air Contamination by Low Concentrations of Aerosol Alpha Emitters (Report No. 2130)                                  | 245 |
| 22. Zelenitskiy, O.Y., V.I. Vornasenskiy, and O.A. Smirnovskaya. Photosynthesis Studies by Quantitative Radiometric Methods (Report No. 2135)                                                         | 260 |
| 23. Bakitin, Yu.Y., and A.Y. Krylov. Studying the Transfer, Distribution, and Transformation of Certain Physiologically Active Compounds in Plants (Report No. 2133)                                  | 274 |
| 24. Gusev, I.I., Ye.Ye. Kravtsov, and A.Ye. Petrov-Spiridonov. Rhythm of Absorption and Secretion in Roots (Report No. 2233)                                                                          | 285 |
| 25. Akhryunko, A.I., and V.A. Shvetikova. Effect of the Rhizospheric Micro-organisms on the Absorption and Secretion of Phosphorus and Sulfur by the Seedling Roots of Woody Plants (Report No. 2312) | 306 |
| 26. Kurovov, V.I., and M.D. Poshonova. Absorption of Phosphorus Tracers by Cultivated Plants in Relation to Their Resistance to Cold (Report No. 2311)                                                | 315 |
| 27. Akhryunko, O.Y., A.Y. Voyerov, V.A. Molchenova, and A.Y. Kozlovskikh. Some Results of Using Radioactive Isotopes for Plant Protection (Report No. 2309)                                           | 322 |
| Alloys of Zirconium and Titanium Doped by the Radioactive Isotope Method (Report No. 2306)                                                                                                            | 329 |

SEMIKHATOVA, O.A.

Effect of temperature on respiration in Alpine plants of  
the Eastern Pamirs. Trudy Bot.inst.Ser.4 no.13:91-112  
'59. (MIRA 13:3)

(Pamirs--Plants--Respiration)  
(Plants, Effect of temperature on)

VOZNESENSKIY, V.L.; SEMIKHATOVA, O.A.

Experimental verification of the radiometric method of evaluating  
the rate of photosynthesis. Fiziol.rast. 6 no.3:380-384  
My-Je '59. (MIRA 12:8)

1. V.L.Komarov Botanical Institute, Leningrad.  
(Photosynthesis) (Radioactive tracers)

SEMIKHATOVA, O.A.; DEN'KO, Ye.I.

Effect of temperature on the respiration of plant leaves[w.s.i.E.].  
Trudy Bot. inst. Ser. 4 no.14:112-137 '60. (MIRA 14:3)  
(Plants, Effect of temperature on)  
(Plants—Respiration)

SEMIKHATOVA, O.A.

Aftereffect of temperature on photosynthesis. Bot. zhur. 45  
no.10:1488-1501 0 '60. (MIRA 13:11)

1. Botanicheskiy institut imeni V.L.Komarova Akademii nauk SSSR,  
Leningrad.  
(Photosynthesis) (Plants, Effect of temperature on)



CHEREMISINOV, Nikifor Andrianovich, prof.; BOYEVA, Lidiya  
Ivanovna, assistant; SEMIKHATOVA, Ol'ga Anatol'yevna,  
assistant; KAPYSHEVA, V.S., red.; PAVLOVA, V.A., tekhn.  
red.

[Practical training work in microbiology] Praktikum po mikro-  
biologii. Pod red. N.A. Cheremisinova. Moskva, Gos. izd-vo  
"Vysshaya shkola," 1961. 110 p. (MIRA 15:4)  
(MICROBIOLOGY--STUDY AND TEACHING)

DILOV, Kh.V.; FILIPPOVA, L.A.; SHTAN'KO, T.P.; VOZNESENSKIY, V.L.:  
SEMIKHATOVA, O.A.; ZALENSKIY, O.V.

Dark metabolism of organic compounds in barley at different temperatures. Trudy Bot. inst. Ser. 4 no.15:3-24 '62. (MIRA 15:7)  
(Plants—Metabolism)

SEMIKHATOVA, O.A.; SAAKOV, V.S.; GORBACHEVA, G.I.

Studying the after effect of temperature on the intensity and  
dynamics of photosynthesis in *Polygonum sachalinense*. Trudy  
Bot. inst. Ser. 4 no.15:25-42 '62. (MIRA 15:7)  
(Photosynthesis) (Plants, Effect of temperature on)

SEMIKHATOVA, O.A.

Cause of high respiration intensity in the alpine plants of the  
Pamirs. Bot. zhur. 47 no.5:636-644 My '62. (MIRA 16:5)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.  
(~~Pamirs~~—Plants—Respiration)

SEMIKHATOVA, O.A.; DEN'KO, Ye.I.; LEINA, G.D.

Respiratory coefficient and conversion of respiratory material at  
various temperatures. Trudy Bot. inst. Ser. 4 no.16:178-193 '63.  
(MIRA 17:2)

BUSHUYEVA, T.M.; SEMIKHATOVA, O.A.; BERS, E.P.

Respiration and oxidative phosphorylation in mitochondria from  
pea seedlings grown under different conditions of calcium  
nutrition. Bot. zhur. 48 no.11:1667-1670 N '63. (MIRA 17:4)

1. Leningradskiy gosudarstvennyy universitet i Botanicheskiy  
institut imeni Komarova AN SSSR, Leningrad.

BUSHUYEVA, T. M.; DENYKO, E. V.; ZAVADSKAYA, I. G.; RAKHIMOV, G.; SEMIKHATOVA, O. A.;  
CHESNOKOV, V. A.

"The effect of heating of the leaf on the physiological activity of its cells  
and subcellular structures."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

AS USSR & Leningrad State Univ.

SEMIKHATOVA, O.A.; YUDINA, O.S.

Role of the pentose phosphate shunt of glucose catabolism in leaves  
at various temperatures. Fiziol. rast. 11 no.2:257-261 Mr-Apr  
'64. (MIRA 17:4)

1. Komarov Botanical Institute, Leningrad.



SEMIKHATOVA, O.A.; IVANOVA, T.I.

Method for manometric determination of respiratory carbon dioxide.  
Fiziol.rast. 12 no.1:175-177 Ja-F '65. (MIRA 18:3)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

BUSHUYEVA, T.M.; SEMIKHATOVA, O.A.

Changes in biochemical activity and structure of mitochondria  
isolated from plants suffering from calcium deficiency. Vest.  
LGU 20 no.9:106-112 '65. (MIRA 18:6)

SEMIKHATINA, Larisa Aleksandrovna; CRULANOVSKAYA, Mariya Vladimirovna;  
DOROSHINA, I.M., red.; VOZNESENSKIY, V.L., red.

[Manometric methods for studying respiration and photo-  
synthesis in plants] Manometricheskie metody izucheniya  
dykhaniya i fotosinteza rastenii. Moskva, Nauka, 1965. 167 p.  
(MIRA 18:11)

MASHANSKIY, V.F.; SEMIKHATOVA, O.A.; BUSHUYEVA, T.M.

Relationship of morphological and biochemical damage symptoms  
in mitochondria. Bot. zhur. 50 no.5:639-646 My '65.  
(MIRA 18:10)

1. Institut tsitologii AN SSSR, Botanicheskiy institut imeni  
Komarova AN SSSR i Gosudarstvennyy universitet imeni Zhdanova,  
Leningrad.

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PA 13T17

USSR/Geology  
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Mar 1947

"The Moscovian Stage on the Western Slope of the  
Urals and Peculiarities of Its Fauna," S. V. Semi-  
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Monographic on the spiriferids of Moscovian age of  
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tions of nearly 30 species of the genus Choristites.

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PA 69T81

USSR/Medicine - Fossils  
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Feb 1948

"Migration of Spiriferidae of the Lower Carboniferous Basin Near Moscow," S. V. Semikhatova, 12½ pp

"Sovet Geolog" No 28

Much data is available at Paleontological Institute of Academy of Sciences, which deals with fauna of basin in region around Moscow. Data has not been utilized to organize a report on stratigraphic and geologic history of fauna found in this basin. Reports briefly on some of spiriferidae mentioned in recent reports by other scientists.

69T81

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Nekotoryye cherty geologicheskoy istorii rayona Arched insko-Donskikh podnyatiy. Is vestiya  
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PA 25/49T27

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USSR/Geology  
Stratification  
Tectonics

Jan 49

"Devonian Deposits in the Region of the Kerensko-Chembaraskiy Upheavals," S. V. Semikhatova, All-Union Sci Res Inst of Natural Gases, 4 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 2

It was previously thought that subject deposits would be found only at 700-800-meter depth. However, discovery of certain fauna at 290-295-meter depth in a well south of Vorona indicates that the Kerensko-Chembaraskiy upheavals attained considerable amplitude. Submitted 9 Nov 48.

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USSR/Geophysics - Stratigraphy

May/Jun 50

"Problems of Stratigraphy of the Lower Section of the Middle Carboniferous,"

S. V. Semikhatova, All-Union Sci-Res Inst of Natural Gases

Ob  
"Byul Mosk. Isp. Prirod., Otdel Geol.", Vol 25, No 3, pp 17-29

Discussion of new data which clarifies problems of the boundary between the lower and middle carboniferous and of stratigraphical terminology. States that the problem of the position of the upper boundaries of resistance must be revised in the light of the new data.